International application No. PCT/KR2005/000776

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G06F 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KR: IPC as above

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| х | KR 2003-46581 A (Electronics and Telecommunications Research Institute) 18 JUNE 2003 See the whole document | 1-4 |
| A | US 2003/14664 A1 (Daavid Hentunen, Helsinki) 16 JANUARY 2003 See the whole document | 1-18 |
| Α | US 2002/144141 A1 (James W.Edwards et al.) 3 OCTOBER 2002 See the whole document | 1-18 |
| Α | JP 2001-216161 A (International Business Maschines Corp.) 10 AUGUST 2001 See the whole document | 1-18 |
| А | JP 2003-288129 A (SUNATMARK) 10 OCTOBER 2003 See the whole document | 1-18 |
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| L | Further | documents are | listed in the | e continuation | of Box C. |
|---|---------|---------------|---------------|----------------|-----------|
|---|---------|---------------|---------------|----------------|-----------|

See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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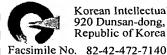
Date of the actual completion of the international search

12 JULY 2005 (12.07.2005)

Date of mailing of the international search report

12 JULY 2005 (12.07.2005)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2005/000776

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|----------------------------|--------------------------|
| KR 2003-46581A | 18.06.2003 | None | |
| US2003/14664A1 | 16.01.2003 | EP1271283A3 EP1271283A2 | 03.09.2003 02.01.2003 |
| US2002/144141A1 | 03.10.2002 | None | |
| JP2001-216161A | 10.08.2001 | US20010013094A1 | 09.08.2001 |
| JP2002-288129A | 10.10.2003 | None | |